

WEATHER OF THE ATLANTIC AND PACIFIC OCEANS

NORTH ATLANTIC OCEAN

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While over the ocean as a whole the number of days on which gales occurred did not differ materially from the normal as shown on the Pilot Chart, there were few days in the month in which heavy weather was not encountered over some part of the northern section of the ocean and the gales were exceptionally severe over the steamer lanes during the latter half. The Icelandic Low was unusually active during the greater part of the month as indicated by the marked negative departures at the three land stations on the British Isles, shown in Table 1.

During the greater part of the first two decades the Azores HIGH was well developed, although on the 1st and 2d an intrusion of low pressure was responsible for a disturbance in that region that will be referred to later.

TABLE 1.—Averages, departures, and extremes of atmospheric pressure at sea level, 8 a. m. (seventy-fifth meridian), North Atlantic Ocean, November, 1929

Stations	Average pressure	Departure	Highest	Date	Lowest	Date
	Inches	Inch (U)	Inches		Inches	
Julianebsab, Greenland.....	29.54	(U)	30.12	12th	28.54	17th.
Belle Isle, Newfoundland.....	29.73	±0.10	30.50	1st.	28.60	16th.
Halifax, Nova Scotia.....	30.01	±0.08	30.58	1st.	29.12	23th.
Nantucket.....	30.04	±0.02	30.44	23d.	29.18	28th.
Hatteras.....	30.10	±0.02	30.38	22d.	29.58	28th.
Key West.....	30.02	±0.03	30.10	10th.	29.92	28th.
New Orleans.....	30.12	±0.03	30.42	30th.	29.90	13th.
Cape Gracias, Nicaragua.....	29.90	±0.03	29.90	10th.	29.80	1st.
Turks Island.....	30.04	±0.05	30.12	15th.	29.92	17th.
Bermuda.....	30.08	±0.00	30.34	1st.	29.74	10th.
Horta, Azores.....	30.19	±0.09	30.60	11th.	29.46	26th.
Lerwick, Shetland Islands.....	29.44	±0.26	30.06	1st.	29.76	12th.
Valencia, Ireland.....	29.56	±0.33	30.28	1st.	29.78	22d.
London.....	29.94	±0.20	30.46	4th.	29.27	30th.

¹ No normal available.

² From normals shown on Hydrographic Office Pilot Chart, based on observations at Greenwich mean noon, or 7 a. m., seventy-fifth meridian time.

³ From normals based on 8 a. m. observations.

⁴ And on other date or dates.

The number of days with fog was apparently considerably below normal over the greater part of the ocean. It was reported on from 6 to 9 days over the Grand Banks, from 4 to 6 days along the American coast north of Hatteras, and from 2 to 3 days in the Gulf of Mexico. Over the steamer lanes between the tenth and fortieth meridians fog did not occur on more than two days in any 5°-square; it was reported on three days off the coast of Spain and Portugal, while the British Isles were comparatively clear.

The first disturbance of any intensity in southern waters occurred on the first and 2d when a well-developed low was over the region between the Azores and Bermuda, with moderate to strong gales over a limited area near the center.

From the 4th to 10th heavy weather was the rule over the middle and eastern sections of the steamer lanes, although the storm area varied considerably in extent and intensity from day to day. On the 9th and 10th there was also a disturbance of marked intensity between the Bermudas and Nantucket, and on the latter date northerly winds of force 7 to 10 were reported from the westerly quadrants.

From the 11th to 13th land stations in northern Europe reported barometric readings well below 29 inches, and on the 11th and 12th strong westerly to northwesterly gales prevailed between the 30th meridian and British coast.

On the 14th to 16th a storm area covered the region from the 25th meridian to the coast of southern Europe, and on the latter day gales were also encountered in the vicinity of the Azores.

From the 17th to 29th the steamer lanes were swept by one severe disturbance after another, the storm area at times extending from the 10th to 55th meridians.

Charts VIII to XI cover the period from the 24th to 27th, when winds of force 11 and 12 were encountered by a number of vessels, as shown by reports in table.

OCEAN GALES AND STORMS, NOVEMBER, 1929

Vessel	Voyage		Position at time of lowest barometer		Gale began	Time of lowest barometer	Gale ended	Lowest barometer	Direction of wind when gale began	Direction and force of wind at time of lowest barometer	Direction of wind when gale ended	Highest force of wind and direction	Shifts of wind near time of lowest barometer
	From—	To—	Latitude	Longitude									
North Atlantic Ocean—													
Yuri Maru, Jap. S. S.	Oran.	Boston.	39 45 N.	45 30 W.	Oct. 31.	7 p., 1	Nov. 2.	29.83	NE	NE., 8	NNE	NE., 9	
Bird City, Am. S. S.	Copenhagen	Baltimore	55 45 N.	30 10 W.	31	2 p., 1	2	29.71	W	WSW., 8	W	WSW., 9	Steady.
Oranian, Br. S. S.	Liverpool	Barbados	33 00 N.	37 14 W.	Nov. 3.	8 p., 3	4	29.86	SE	SE., 8	Var	SE., 10	SE-S.-SSW.
Sagapora, Am. S. S.	Norway	Portland, Me.	59 06 N.	10 10 W.	7	8 p., 7	12	28.74	SW	S., 8	NW	—, 10	WSW-WNW.
Exmouth, Am. S. S.	Casablanca	New York	38 08 N.	67 04 W.	9	10 a., 9	10	29.61	N	—, 10	N	—, 10	NW-N-NNE.
Dordrecht, Du. S. S.	Helsingfors	do	49 10 N.	41 00 W.	10	Noon, 10	10	29.31	S	WSW., 9	N	WSW., 9	Steady.
Duquesne, Am. S. S.	Manchester	New Orleans	51 20 N.	8 00 W.	11	3 a., 11	16	29.77	WSW	WSW., 8	WSW	—, 10	WSW-W.-NW.
Henri Jasper, Belg. S. S.	Antwerp	New York	50 30 N.	18 30 W.	14	2 a., 15	15	29.59	SSE	SW	NNW	N., 11	SW-W.
Loriga, Br. M. S.	London	Canal Zone	48 38 N.	6 28 W.	15	—, 15	16	28.78	S	W	NNW	W., 10	Steady.
Stuttgart, Ger. S. S.	New York	Bremerhaven	44 10 N.	52 51 W.	16	9 a., 16	18	29.15	W	W., 9	W	W., 11	Do.
Norwegian, Br. S. S.	Liverpool	Boston	50 38 N.	42 25 W.	16	3 a., 17	19	28.93	SE	SW., 11	NW	SW., 11	SW-WNW.
Bellflower, Am. S. S.	Cork	New York	51 25 N.	23 09 W.	17	Noon, 17	24	29.07	SSE	SSE	N	NW., 11	WSW-NW.
Milwaukee, Ger. S. S.	Bishop's Rocks	do	50 00 N.	13 50 W.	18	11 a., 18	18	29.39	S	SSW	WSW	SSW., 10	SSW-WSW.
Coaxet, Am. S. S.	Houston	Liverpool	46 25 N.	26 01 W.	21	10 a., 21	21	29.14	NW	WNW, 11	—	WNW., 11	WNW-NW.
Quaker City, Am. S. S.	Dundee	Philadelphia	57 10 N.	24 25 W.	22	6 p., 22	26	28.86	NE	NW., 9	NW	—, 11	—
Grete, Ger. S. S.	Savannah	Bremen	48 30 N.	25 30 W.	21	9 p., 24	26	28.84	NW	WNW, 11	W	—, 11	NW-W.
Sarcosie, Am. S. S.	Havre	New York	40 55 N.	65 22 W.	25	6 a., 25	25	29.63	W	W., 7	NW	NW., 10	—
Quaker City, Am. S. S.	Dundee	Philadelphia	49 30 N.	45 00 W.	26	6 p., 26	29	28.53	NW	NW, 9	W	—, 12	—
Sundance, Am. S. S.	Savannah	Liverpool	47 00 N.	25 00 W.	26	6 a., 26	27	28.56	SE	SE., 7	S	SE., 12	SE-S.
Antinous, Am. S. S.	Mobile	Bremen	44 25 N.	43 08 W.	26	4 a., 27	28	29.10	W	W	NW	—, 11	—
Naples Maru, Jap. S. S.	Hamburg	New York	44 25 N.	48 07 W.	21	9 a., 28	29	28.96	WNW	WNW, 11	NW	NW., 12	—
North Pacific Ocean—													
Taiyo Maru, Jap. S. S.	Yokohama	San Francisco	24 50 N.	165 38 W.	2	2 a., 4	4	29.74	NNE	SSW., 4	SW	N., 8	Steady.
California, Am. S. S.	Otaru	do	46 00 N.	161 00 E.	3	5 p., 3	3	29.47	WSW	W., 9	NW	WSW., 9	WSW-WNW.
Chief Capilano, Br. S. S.	Karatsu	San Pedro	49 30 N.	172 00 W.	4	2 a., 4	4	28.92	S	SSW., 9	SW	SE., 11	S.-SSW-WSW.
City of Victoria, Can. S. S.	Grays Harbor	Yokohama	52 20 N.	168 50 W.	4	4 p., 4	5	28.89	SE	SSW., 9	WSW	SSW., 9	S.-SSW-WSW.
Kurohime Maru, Jap. S. S.	Everett	Kobe	50 40 N.	178 00 E.	5	6 a., 5	6	29.36	W	W., 8	—	W., 10	—
Do	do	do	48 00 N.	165 30 E.	8	11 p., 8	9	29.25	W	W., 8	—	W., 9	—
Golden Hind, Am. S. S.	Hong Kong	San Francisco	47 29 N.	179 03 E.	8	Noon, 8	8	29.52	S	S., 9	W	S., 9	S-W.
California, Am. S. S.	Otaru	do	46 38 N.	159 00 W.	8	5 p., 9	9	29.82	SSE	SSW., 8	W	S., 10	Do.
Do	do	do	46 55 N.	152 30 W.	10	6 a., 11	11	29.01	SE	S., 11	SW	S., 11	S.-SW.